

NUECES BBASC STUDY #1

RE-EXAMINATION OF THE 2001 AGREED ORDER MONTHLY TARGETS AND SAFE YIELD VERSUS CURRENT DEMAND EVALUATIONS

NEAC - JUNE 16, 2014 CORY SHOCKLEY, PE

DISCUSSION

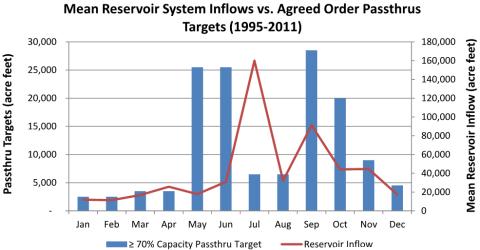
Background

Scope of Work

Schedule

BACKGROUND

- Nueces BBASC work plan
- Nueces BBEST
 - Seasonal shift in inflows
 - BBEST Report Sec. 4.1
 - Nueces Bay
 - Choke Canyon Reservoir / Lake Corpus Christi System
 - Nueces BBASC Report (Sec. 2.3)
 - Opportunities to better manage FWI... since the 1995 development of the Agreed Order
 - Corpus Christi Water Supply Model (CCWSM)



BACK	GROU	NE
FROM	BBAS	C
WORK	PLAN	

	Targets	2,500	2,500	3,500	3,500	25,500	25,500	6,500	6,500	28,500	20,000	9,000	4,500
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		1,149	733	433	197	154	6	50	23	273	414	175	251
		1,219	772	471	454	205	64	150	100	397	1,069	262	666
		1,533	873	984	599	258	167	317	141	1,747	1,348	376	939
25%		2,330	1,023	1,772	1,104	462	304	535	232	3,007	2,713	480	1,086
		2,969	2,143	2,083	1,450	1,839	588	814	851	5,892	3,089	2,257	1,717
		4,436	3,434	2,449	2,895	2,236	1,063	1,610	1,805	9,322	5,404	3,040	1,743
		4,490	3,781	4,942	4,062	2,922	1,102	4,991	3,058	12,969	5,813	4,935	2,442
		9,120	4,945	6,020	5,132	4,744	1,995	6,499	4,062	14,722	6,609	6,458	2,532
50%		10,650	7,523	6,877	8,969	5,118	8,720	12,352	4,407	25,016	6,622	14,148	4,657
		11,761	9,135	7,345	10,814	9,741	12,861	16,450	5,835	46,356	7,529	23,315	4,751
		12,062	11,407	8,208	17,556	11,009	13,086	31,883	7,858	49,157	12,610	24,021	10,967
		12,973	11,805	13,787	22,951	12,361	15,500	34,043	9,109	63,766	15,053	39,244	13,685
		13,874	14,252	19,067	24,940	15,558	27,023	131,662	12,967	69,331	17,447	60,179	15,297
75%		16,087	22,090	32,556	26,670	16,101	30,184	141,306	46,656	78,089	24,977	72,664	24,128
		29,170	28,200	35,188	28,802	41,458	77,285	249,346	80,345	79,484	129,887	85,091	58,002
		30,487	32,949	65,052	108,180	71,502	157,810	750,255	107,436	161,588	231,260	169,218	74,930
		37,649	37,374	78,979	171,606	108,092	177,394	1,337,481	260,321	932,297	280,307	253,185	77,334
	Total	201,959	192,439	286,213	436,381	303,760	525,152	2,719,744	545,206	1,553,413	752,151	759,048	295,127

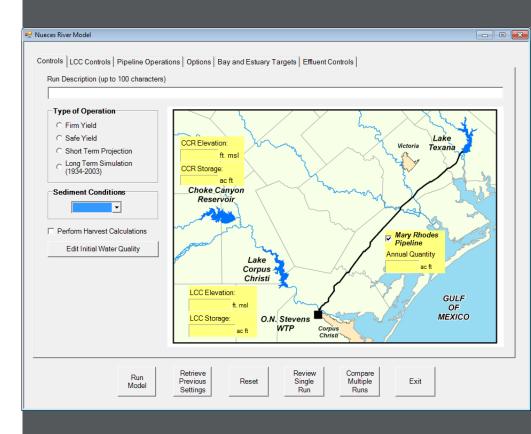
GOALS

- Determine if a "shift" has occurred in the inflows to the Bay and CCR/LCC System and what impact this "shift" may have on Safe Yield and FWI to the Bay.
- Compare the results from a Safe Yield Demand of 205,000 acft/yr to a current demand of 133,000 acft/yr on FWI to the Bay.



SOW

- Task 1 Compile, Analyze and Evaluate
 - Compile Hydrologic Data
 - Long-term (1934 2014)
 - Short-term (1986 2014)
 - Recent (2004 2014)
 - Analyze Data to Identify Seasonal Shift
 - Compared to 2001 Agreed Order
 - Monthly Inflow Targets
 - Evaluate New Pattern
 - CCWSM Simulations
 - Same Volumes Different Distribution
 - Results
 - » Yields & FWI to Bay
 - TXBLEND
 - · Coordinate with TWDB if requested



SOW

- Task 2 Compare Safe Yield and Current Demand
 - Safe Yield
 - 205,000 acft/yr
 - » 125,000 acft storage reserve (~14%)
 - » Regional Planning modeling assumptions
 - Current Demand
 - 133,000 acft/yr
 - Compare
 - FWI to Bay / Reservoir Levels
- Task 3 Meetings and Report
 - Kickoff Meeting (Today)
 - Up to 2 more meetings to present results
 - Draft and Final Report

SCHEDULE

- Waiting on Contract / NTP
- Anticipate 20 weeks to complete analysis
- Draft report after analysis
- Final report due August 2015





